INVENTORS: Brian J. Smith and Janice C. Rock

TITLE OF INVENTION: A Passive Radar Detector for Dualizing Missile Seeker Capability

INFORMATION DISCLOSURE STATEMENT

A) <u>U. S. Patent 6,424,286 B1</u> teaches a device to jam a hostile radar to render it ineffective and vulnerable. During the "blind range" between the termination of an RF missile's active tracking of the target radar at a pre-selected distance from the target and its impact on the target, the jamming device produces and broadcasts, via the missile's antenna, signals that are designed to jam and frustrate the target radar. However, the RF missile itself does not gain any additional guidance modes, nor does it perform azimuth or elevation direction finding activities as a result of the jamming device.

Applicants' invention, on the other hand, does perform azimuth and elevation direction finding on the signals received from the target radar. Further, applicants' invention provides additional guidance to the missile by passively detecting any emissions from the target radar and processing them into signals that are usable by the missile in guiding itself to make a more direct hit upon the target.

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Docket Number (optional) Application Number AMPC 5077 INFORMATION DISCLOSURE CITATION Applicants: Brian J. Smith et IN AN APPLICATION Group Art Unit (Use several sheets if necessary) Filing Date U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE NAME CLASS SUBCLASS FILING DATE NUMBER APPROPRIATE 6,424,286 B1 Jul. 23, Brian J. Smith et al. 342 14 2002 FOREIGN PATENT DOCUMENTS TRANSLATIO **EXAMINER** DOCUMENT DATE COUNTRY CLASS SUBCLASS INITIAL NUMBER N_ YES NO OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) DATE CONSIDERED **EXAMINER** EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.